

Key Features & Benefits:

- Wattage Selectable
- Designed for Easy Sensor Installation
- Optical Grade Polycarbonate Lens
- Durable Die-Cast housing
- White, Bronze or Black Finish
- 54" Driver Cord with Twist Lock and Straight Blade Options
- Multiple Mounting Options
- 0–10V Dimming
- 6kV Surge Protection
- Wet Listed

Project:

Date:

Catalog #:

Notes:

Product Specifications:

Selectable Wattage: 100W–120W–150W–200W
 Kelvin: 4000K
 Max Lumen Output: 28,578 Lumens
 Max Efficacy: 145 lm/W
 Voltage: 120–277 VAC
 Input Frequency: 50/60 Hz
 Operating Temperature: -4°F to 122°F (-20°C to 50°C)
 Dimming: 0–10V
 Dimming Range: 0-100%
 Dim to Off: true
 CRI: >80
 Beam Angle: 60°
 Cord Length: 5
 Dimensions: L14.96" x W14.96" x H5.35"
 Weight (lbs): 8.9
 Finish: WH (White)
 L70 Lifetime Calculated per TM21: 140,000 hours
 Warranty: 7 Year



Ordering Guide:

ESL	TYPE	SELECTABLE WATTAGE	GEN	KELVIN	VOLTAGE	FINISH	BEAM ANGLE
ESL	RHB	100200W	2	40K		WH	60°D
	(RHB) Round Highbay	(200W) 100W–120W–150W–200W	(2) 2nd Gen	(40) 4000 Kelvin (50) 5000 Kelvin	(BLANK) 120–277 VAC (HV) 200–528 VAC	(BK) Black (WH) White (BZ) Bronze	(120D) 120° Default (60D) 60°

FACTORY INSTALLED OPTIONS

CS3W6P	Cord Set, 3 Conductor, 18 Gauge, White, 6 Foot Length, Straight Blade Plug
CS3B6P	Cord Set, 3 Conductor, 18 Gauge, Black, 6 Foot Length, Straight Blade Plug
CS3B6TL5	Cord Set, 3 Conductor, 18 Gauge, Black, 6 Foot Length, Twist Lock, NEMA I5–15 — 120 VAC
CS3B6TL6	Cord Set, 3 Conductor, 18 Gauge, Black, 6 Foot Length, Twist Lock, NEMA I6–15 — 240 VAC
CS3B6TL7	Cord Set, 3 Conductor, 18 Gauge, Black, 6 Foot Length, Twist Lock, NEMA I7–15 — 277 VAC
CS5W6W	Cord Set, 5 Conductor, 16 Gauge, White, Whip End
CS5B6W	Cord Set, 5 Conductor, 16 Gauge, Black, Whip End
EM30*	Emergency Backup Battery Unit, Auto Test Function, 40W Output, 90 Minutes Min, 100–347 VAC Input, 170 VDC Output, Factory Install, Title 20

FIELD INSTALLED ACCESSORIES

CONTROLS:

ESL-KNX-2-FS7-RPP*	Konex Occupancy Sensor with Integrated RPP Controller. Field Installed Utilizing Twist Lock Design for Konex High Mount Receptacles. 120–277 VAC with Power Statistics.
ESL-KNX-2-RPP-003*	Konex Power Pack Relay Controller. Use with Konex Sensors or Wall Switches for Wireless Dimming Control. Field Installed Utilizing Twist Lock Design for Konex High Mount Receptacles. 120–277 VAC with Power Statistics.
ESL-6OCC	High Bay Occupancy Sensor for Twist Connect Receptacles, 12–24 VDC, Daylight Harvesting, 40 Foot Mounting, PIR Sensor
ESL-9OCC-LV-HDD	High Bay Occupancy Sensor for Twist Connect Receptacles, 12V Input, Daylight Harvesting, 40 Foot Mounting, Microwave Sensor, Step Dimming
ESL-REM-100	Hand-held Remote for 9OCC, 6OCC
ESL-EMG-REM1	Hand-held Remote to Program EM30

MOUNTING:

ESL-ACCS-CMA2	Conduit Mount Adapter for Roswell Series. 3/4" NPT. Side Hole Allows for Wiring in Conduit.
ESL-RHB1-LOOP	Stainless Steel Eye Bolt Mount
ESL-RHB1-6SCBL	6' Safety Cable
ESL-RHB1-ff-YM	Yoke Mount for Roswell Series—White, Bronze, or Black Finish Available

WIRE GUARD:

ESL-RHB1-WG-WH	Wire Guard Cover for Roswell Series. White Finish. Field Installed.
ESL-RHB1-WG-BKBZ	Wire Guard Cover for Roswell Series. Black Finish. Field Installed.

REFLECTORS:

ESL-RHB1-ARF-90	Aluminum Reflector for Roswell Series. 90 Degree Beam Angle. Field Installed
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*EMG is not compatible with KNX accessories

Catalog Data:

ITEM#	SELECTABLE WATTAGE	KELVIN	MAX LUMEN OUTPUT	EFFICACY (lm/W)	DLC QPL CODE (BY LENS)
ESL-RHB-100200W-240-ff-120D ESL-RHB-100200W-240-ff-60D	100 Watts	4000K	14,500	145	(120D) — PKW6GXGC (60D) — P1B528YG
	120 Watts		17,400	145	
	150 Watts		21,750	145	
	200 Watts		28,578	146	
ESL-RHB-100200W-250-ff-120D ESL-RHB-100200W-250-ff-60D	100 Watts	5000K	14,500	145	(120D) — PCRWUW6H (60D) — P66NREA2
	120 Watts		17,400	145	
	150 Watts		21,750	145	
	200 Watts		29,585	149	
HIGH VOLTAGE					
ESL-RHB-100200W-240-HV-ff-120D ESL-RHB-100200W-240-HV-ff-60D	100 Watts	4000K	14,500	145	—
	120 Watts		17,400	145	
	150 Watts		21,750	145	
	200 Watts		28,578	146	
ESL-RHB-100200W-250-HV-ff-120D ESL-RHB-100200W-250-HV-ff-60D	100 Watts	5000K	14,500	145	—
	120 Watts		17,400	145	
	150 Watts		21,750	145	
	200 Watts		29,585	149	

Accessories



Konex Occupancy/RPP
ESL-KNX-2-FS7-RPP



Konex RPP
ESL-KNX-2-RPP-003



Microwave
Occupancy Sensor
ESL-9OCC-LV-HDD



PIR
Occupancy Sensor
ESL-6OCC



Yoke Mount
ESL-RHB1-ff-YM



Loop Mount
ESL-RHB1-LOOP



Conduit Mount
ESL-ACCS-CMA2



Programming Remote
ESL-REM-100



Emergency Backup
ESL-EMG-HB1-CWR-30W



Airline Cable
ESL-RHB1-6SCBL



Wire Guard
ESL-RHB1-WG-ff



Reflector
ESL-RHB1-ARF-90

Electrical Load — Standard Voltage:

SYSTEM WATTS	INPUT CURRENT				INPUT VOLTAGE	INPUT FREQUENCY	INPUT CURRENT	POWER FACTOR	THD	OPERATING TEMPERATURE	SURGE PROTECTION	DIMMING
	120 VAC	208 VAC	240 VAC	277 VAC								
100	0.83	0.48	0.42	0.36	120–277 VAC	50/60 Hz	0.6A@120 VAC	>0.99 @ 120 VAC	<10%	-4°F to 122°F (-20°C to 50°C)	6kV/4kV per ANSI C82.77-5-2015	0–10V
120	1.00	0.58	0.50	0.43	120–277 VAC	50/60 Hz	1A@120 VAC					
150	1.25	0.72	0.63	0.54	120–277 VAC	50/60 Hz	0.71A@120 VAC					
200	1.67	0.96	0.83	0.72	120–277 VAC	50/60 Hz	1A@120 VAC					

Electrical Load — High Voltage:

SYSTEM WATTS	INPUT CURRENT				INPUT VOLTAGE	INPUT FREQUENCY	INPUT CURRENT	POWER FACTOR	THD	OPERATING TEMPERATURE	SURGE PROTECTION	DIMMING
	200 VAC	277 VAC	347 VAC	528 VAC								
100	0.50	0.36	0.29	0.19	200–480 VAC	47/63 Hz	1.0A@200 VAC 0.45A@480 VAC	>0.97@ 200 VAC	<10% @ 200 VAC	-4°F to 122°F (-20°C to 50°C)	6kV/4kV per ANSI C82.77-5-2015	0–10V
120	0.60	0.43	0.35	0.23	200–480 VAC	47/63 Hz	1.0A@200 VAC 0.45A@480 VAC	>0.95@ 277 VAC				
150	0.75	0.54	0.43	0.28	200–480 VAC	47/63 Hz	1.0A@200 VAC 0.45A@480 VAC	>0.92@ 480 VAC				
200	1.00	0.72	0.58	0.38	200–480 VAC	47/63 Hz	1.0A@200 VAC 0.45A@480 VAC					

Lumen Ambient Temperature (LAT) Multipliers:

AMBIENT	LUMEN MULTIPLIER
0 °C 32 °F	1.02
10 °C 50 °F	1.01
20 °C 68 °F	1.00
25 °C 77 °F	1.00
30 °C 86 °F	1.00
40 °C 104 °F	0.99
50 °C 122 °F	0.96

Unified Glare Rating (UGR):

BEAM ANGLE	UGR
60°	27
120°	32.7
90° (Aluminum Reflector)	22.7

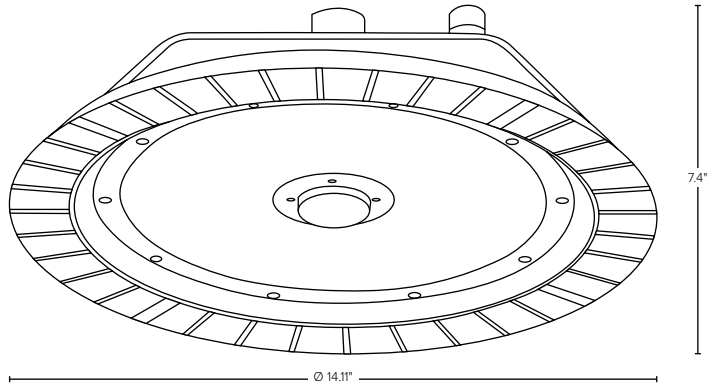
Comparison Technology:

SYSTEM WATTS	DESCRIPTION
100	4-lamp T5HO, 6-lamp T8
120	6-lamp T5HO, 8-lamp T8, 400W HID
150	6-lamp T5HO, 8-lamp T8, 400W HID
200	10-lamp T5HO, 575W HID

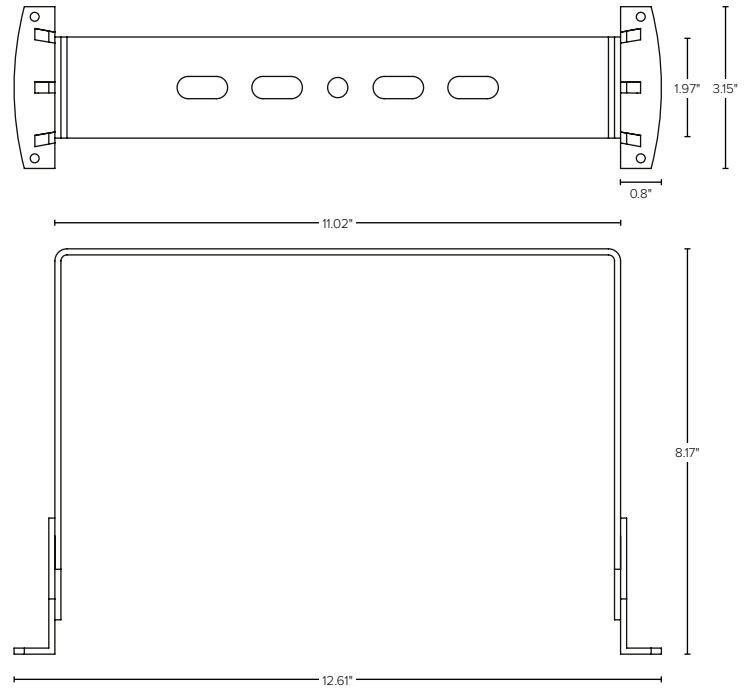
LED Lumen Maintenance:

SYSTEM WATTS	HOURS			
	0	25,000	50,000	100,000
100	100%	95%	90%	81%
120	100%	95%	90%	80%
150	100%	95%	90%	81%
200	100%	96%	91%	82%

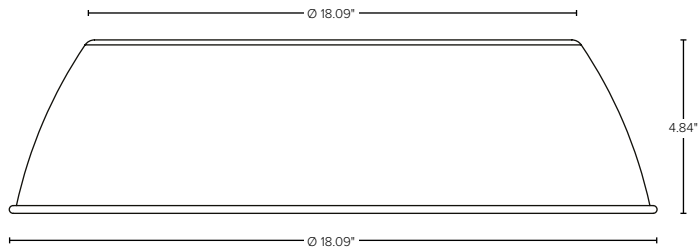
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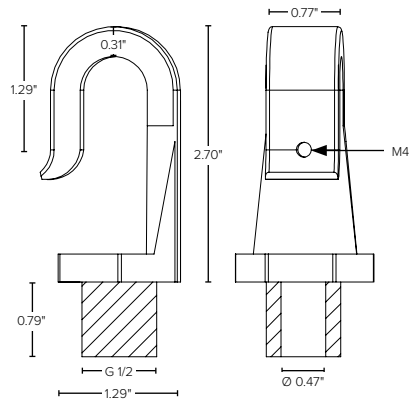
ESL-RHB1-xx-YM



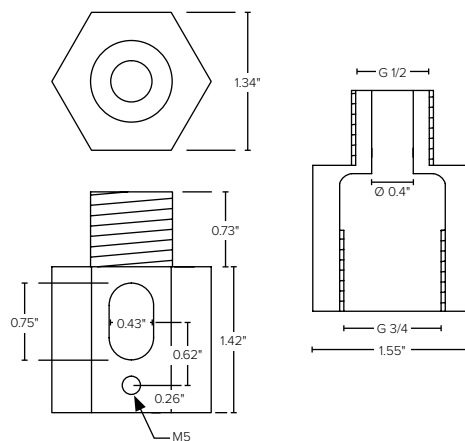
ESL-RHB1-ARF-90



ESL-RHB1-HM



ESL-ACCS-CMA2



ESL-RHB1-LOOP

